

**WEST****End of Result Set**☐ **Generate Collection** **Print**

L3: Entry 6 of 6

File: DWPI

Jul 12, 1994

DERWENT-ACC-NO: 1994-260500

DERWENT-WEEK: 199432

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TITLE: Novel antitumour and immuno-suppressive di:hydro-vernodalin - extracted from Vernonia amygdalin

PATENT-ASSIGNEE: SNOW BRAND MILK PROD CO LTD (SNOW)

PRIORITY-DATA: 1992JP-0357979 (December 25, 1992)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06192265 A	July 12, 1994		009	C07D493/04

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 06192265A	December 25, 1992	1992JP-0357979	

INT-CL (IPC): A61K 31/365; A61K 35/78; C07D 493/04

ABSTRACTED-PUB-NO: JP 06192265A

## BASIC-ABSTRACT:

4,15-Dihydro vernodalin of formula (I) is new.

According to the method described in 'The Journal of Organic Chemistry, Vol. 34, 3908-3911, 1969, Kupchan et al, vernodalin was extd. from Vernonia amygdalina. 57.7 mg of the cpd. was dissolved in 2 ml methanol, cooled, treated with 2 mg of sodium borohydride and stirred gently for 8 min. After completion of reaction, the mixt. was treated with several drops of acetic acid to make the mixt. weakly acidic and filtered. The filtrate was concd. under reduced press., injected into an HPLC column packed with ODS and eluted with acetonitrile-water (30:70) at an elution rate of 3 ml/min. (I) was eluted after about 24 min. The eluate was recovered and concd. to obtain 7.5 mg of (I) as an oily prod.

USE/ADVANTAGE - (I) is useful as an antitumour and immunosuppressive agent. (I) in concns. of 1 mg/ml exhibited complete inhibition of the PFC number (number of plaques) and the amt. of IgM produced w.r.t. the response of producing T-cell-independent antibodies of LPS-stimulated mouse spleen cells. (I) may be administered as injections, tablets, capsules or granules.

ABSTRACTED-PUB-NO: JP 06192265A

## EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B02

CPI-CODES: B06-A03; B14-G02; B14-H01B;

## WEST Search History

DATE: Monday, May 12, 2003

Set Name   Query  
side by side

Hit Count   Set Name  
result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*

L4	vernoni\$3 and amygdalin\$2	6	L4
L3	vernoni\$2 and amygdalin\$2	6	L3
L2	L1 and (water or aqueous) and extract\$5	19	L2
L1	(vernoni\$2 same amygdalina or amygdalina)	26	L1

END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 15:08:44 ON 12 MAY 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:08:56 ON 12 MAY 2003

SEA VERONI### AMYGDALIN### AND (WATER OR AQUEOUS) AND EXTRACT##

-----  
2 FILE CAPLUS  
1 FILE DRUGU  
1 FILE IFIPAT  
1 FILE USPATFULL  
1 FILE VETU

L1 QUE VERONI### AMYGDALIN### AND (WATER OR AQUEOUS) AND EXTRACT##  
-----

FILE 'CAPLUS, DRUGU, VETU' ENTERED AT 15:10:56 ON 12 MAY 2003

L2 4 S L1

L3 4 DUP REM L2 (0 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 15:11:20 ON 12 MAY 2003

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:21:47 ON 12 MAY 2003

SEA VERONIA AMYGDALINA (P) LEAF (P) EXTRACT#####

-----  
0\* FILE ADISNEWS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
0\* FILE BIOTECHNO  
0\* FILE CEABA-VTB  
0\* FILE CIN  
0\* FILE ESBIODASE  
0\* FILE FEDRIP  
0\* FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
1\* FILE FSTA  
1 FILE IFIPAT  
0\* FILE KOSMET  
0\* FILE MEDICONF  
0\* FILE NTIS  
0\* FILE NUTRACEUT  
0\* FILE PASCAL  
0\* FILE PHARMAML  
1 FILE USPATFULL  
1 FILE VETU

L4 QUE VERONIA AMYGDALINA (P) LEAF (P) EXTRACT#####

-----  
SEA VERONIA AMYGDALINA (P) EXTRACT#####

-----  
0\* FILE ADISNEWS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
0\* FILE BIOTECHNO

1 FILE CAPLUS  
 0\* FILE CEABA-VTB  
 0\* FILE CIN  
 1 FILE DRUGU  
 0\* FILE ESBIODASE  
 0\* FILE FEDRIP  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 1\* FILE FSTA  
 1 FILE IFIPAT  
 0\* FILE KOSMET  
 0\* FILE MEDICONF  
 0\* FILE NTIS  
 0\* FILE NUTRACEUT  
 0\* FILE PASCAL  
 0\* FILE PHARMAML  
 1 FILE SCISEARCH  
 1 FILE USPATFULL  
 1 FILE VETU

L5 QUE VERONIA AMYGDALINA (P) EXTRACT#####

-----  
 SEA VERONIA (5A) AMYGDALINA  
 -----

2 FILE AGRICOLA  
 2 FILE BIOSIS  
 1 FILE CABA  
 4 FILE CAPLUS  
 5 FILE DDFU  
 5 FILE DRUGU  
 2 FILE EMBASE  
 1 FILE ESBIODASE  
 2 FILE FROSTI  
 2 FILE FSTA  
 1 FILE IFIPAT  
 1 FILE LIFESCI  
 1 FILE PASCAL  
 2 FILE SCISEARCH  
 1 FILE USPATFULL  
 1 FILE VETU

L6 QUE VERONIA (5A) AMYGDALINA

-----  
 SEA L6 AND (NEOPLAST### OR ANTI-NEOPLAST### OR CANCER OR TUMOR  
 -----

1 FILE AGRICOLA  
 1 FILE CABA  
 1 FILE CAPLUS  
 2 FILE DDFU  
 3 FILE DRUGU  
 1 FILE EMBASE  
 1 FILE ESBIODASE  
 2 FILE FROSTI  
 2 FILE FSTA  
 1 FILE IFIPAT  
 1 FILE SCISEARCH  
 1 FILE USPATFULL  
 1 FILE VETU

L7 QUE L6 AND (NEOPLAST### OR ANTI-NEOPLAST### OR CANCER OR TUMOR  
 -----

FILE 'DRUGU, FROSTI, FSTA, AGRICOLA, CABA, CAPLUS, EMBASE, ESBIODASE, SCISEARCH' ENTERED AT 15:28:54 ON 12 MAY 2003

L8 13 S L7

L9 13 DUP REM L8 (0 DUPLICATES REMOVED)

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:08:44 ON 12 MAY 2003

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:08:56 ON 12 MAY 2003

66 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s veroni### amygdalin### and (water or aqueous) and extract####

2 FILE CAPLUS

20 FILES SEARCHED...

1 FILE DRUGU

38 FILES SEARCHED...

1 FILE IFIPAT

51 FILES SEARCHED...

1 FILE USPATFULL

1 FILE VETU

65 FILES SEARCHED...

5 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L1 QUE VERONI### AMYGDALIN### AND (WATER OR AQUEOUS) AND EXTRACT####

=> d rank

F1 2 CAPLUS

F2 1 DRUGU

F3 1 IFIPAT

F4 1 USPATFULL

F5 1 VETU

=> file f1-2 f5

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
1.65	1.86

FILE 'CAPLUS' ENTERED AT 15:10:56 ON 12 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'VETU' ENTERED AT 15:10:56 ON 12 MAY 2003

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=> s l1

L2

4 L1

=> dup rem 12

PROCESSING COMPLETED FOR L2

L3 4 DUP REM L2 (0 DUPLICATES REMOVED)

=> index bioscience  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.02	19.61

	SINCE FILE	TOTAL
	ENTRY	SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	0.00	-1.30

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 15:21:47 ON 12 MAY 2003

66 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> s veronia amygdalina (p) leaf (p) extract#####

- 0\* FILE ADISNEWS
- 0\* FILE BIOCOMMERCE
- 0\* FILE BIOTECHABS
- 0\* FILE BIOTECHDS
- 0\* FILE BIOTECHNO
- 0\* FILE CEABA-VTB
- 0\* FILE CIN

25 FILES SEARCHED...

- 0\* FILE ESBIODASE
- 0\* FILE FEDRIP
- 0\* FILE FOMAD
- 0\* FILE FOREGE
- 0\* FILE FROSTI
- 1\* FILE FSTA
- 1 FILE IFIPAT
- 0\* FILE KOSMET
- 0\* FILE MEDICONF
- 0\* FILE NTIS
- 0\* FILE NUTRACEUT
- 0\* FILE PASCAL

53 FILES SEARCHED...

- 0\* FILE PHARMAML
- 1 FILE USPATFULL
- 1 FILE VETU

4 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L4 QUE VERONIA AMYGDALINA (P) LEAF (P) EXTRACT#####

=> s veronia amygdalina (p) extract#####

- 0\* FILE ADISNEWS
- 0\* FILE BIOCOMMERCE
- 0\* FILE BIOTECHABS
- 0\* FILE BIOTECHDS
- 0\* FILE BIOTECHNO
- 1 FILE CAPLUS
- 0\* FILE CEABA-VTB
- 0\* FILE CIN
- 1 FILE DRUGU
- 0\* FILE ESBIODASE
- 0\* FILE FEDRIP
- 0\* FILE FOMAD

35 FILES SEARCHED...

- 0\* FILE FOREGE
- 0\* FILE FROSTI
- 1\* FILE FSTA
- 1 FILE IFIPAT
- 0\* FILE KOSMET
- 0\* FILE MEDICONF
- 0\* FILE NTIS
- 0\* FILE NUTRACEUT
- 0\* FILE PASCAL
- 0\* FILE PHARMAML
- 1 FILE SCISEARCH
- 1 FILE USPATFULL
- 1 FILE VETU

7 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L5 QUE VERONIA AMYGDALINA (P) EXTRACT#####

=> s veronia (5a) amygdalina

- 2 FILE AGRICOLA
- 2 FILE BIOSIS
- 1 FILE CABA
- 4 FILE CAPLUS
- 5 FILE DDFU
- 5 FILE DRUGU
- 2 FILE EMBASE
- 1 FILE ESBIOBASE
- 2 FILE FROSTI
- 2 FILE FSTA
- 1 FILE IFIPAT
- 1 FILE LIFESCI

50 FILES SEARCHED...

- 1 FILE PASCAL
- 2 FILE SCISEARCH
- 1 FILE USPATFULL
- 1 FILE VETU

16 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L6 QUE VERONIA (5A) AMYGDALINA

=> s 16 and (neoplast### or anti-neoplast### or cancer or tumor or tumour or tumuor or leukemia or lymphoma or proliferative or extract#### or leaf)

- 1 FILE AGRICOLA

12 FILES SEARCHED...

- 1 FILE CABA
- 1 FILE CAPLUS

20 FILES SEARCHED...

- 2 FILE DDFU

25 FILES SEARCHED...

- 3 FILE DRUGU
- 1 FILE EMBASE
- 1 FILE ESBIOBASE

34 FILES SEARCHED...

- 2 FILE FROSTI
- 2 FILE FSTA
- 1 FILE IFIPAT

47 FILES SEARCHED...

- 1 FILE SCISEARCH

58 FILES SEARCHED...

- 1 FILE USPATFULL
- 1 FILE VETU



13 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L7 QUE L6 AND (NEOPLAST### OR ANTI-NEOPLAST### OR CANCER OR TUMOR OR TUMOUR O  
R TUMUOR OR LEUKEMIA OR LYMPHOMA OR PROLIFERATIVE OR EXTRACT#### OR LE  
AF)

=> d rank

F1	3	DRUGU
F2	2	DDFU
F3	2	FROSTI
F4	2	FSTA
F5	1	AGRICOLA
F6	1	CABA
F7	1	CAPLUS
F8	1	EMBASE
F9	1	ESBIOBASE
F10	1	IFIPAT
F11	1	SCISEARCH
F12	1	USPATFULL
F13	1	VETU

=> file f1-9 f11

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
6.60	26.21

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-1.30

CA SUBSCRIBER PRICE

FILE 'DRUGU' ENTERED AT 15:28:54 ON 12 MAY 2003  
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FILE 'DDFU' ACCESS NOT AUTHORIZED

FILE 'FROSTI' ENTERED AT 15:28:54 ON 12 MAY 2003  
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FILE 'FSTA' ENTERED AT 15:28:54 ON 12 MAY 2003  
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FILE 'ESBIOBASE' ENTERED AT 15:28:54 ON 12 MAY 2003  
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FILE 'SCISEARCH' ENTERED AT 15:28:54 ON 12 MAY 2003  
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=> s 17

8 FILES SEARCHED...

L8 13 L7

=> dup rem 18

PROCESSING COMPLETED FOR L8

L9           13 DUP REM L8 (0 DUPLICATES REMOVED)